Review Lesson 10
Functions

NAME:

⬛ Start by navigating to the Online Lesson for instructions.

Objectives

⊘ Determine if a graph is a function.

⊘ Write equations in terms of y or $f(x)$.

Introduced in:

Algebra 1: Principles of Secondary Mathematics

Lesson 7B

🔭 Functions

▷ *Fill in the notes as you watch the video in the Online Lesson.*

- The _____ is used on a coordinate plane to determine if a

  graph is a function.

- When a graph passes the VLT, the line only touches the graph at _____.

- When a function is present, the equation can be written in _____.

- If function notation is used, you already know that the equation _____

  a function.

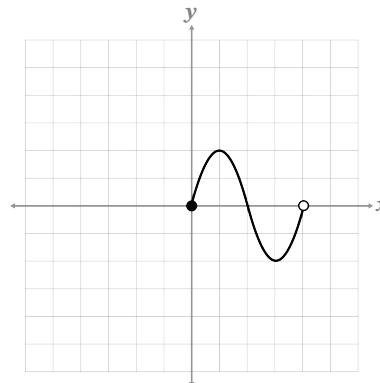### Example 1

▷ *Complete the example as you watch the video in the Online Lesson.*

Determine if the graphs are functions.

A)
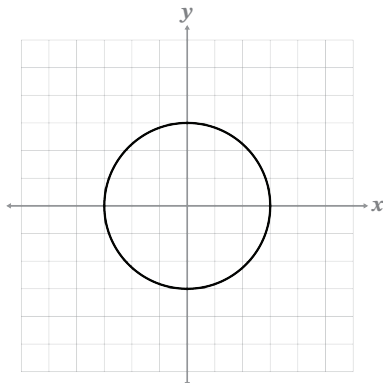
B)

Example 2

▷ *Complete the example as you watch the video in the Online Lesson.*

Write the equations with f in respect to x.
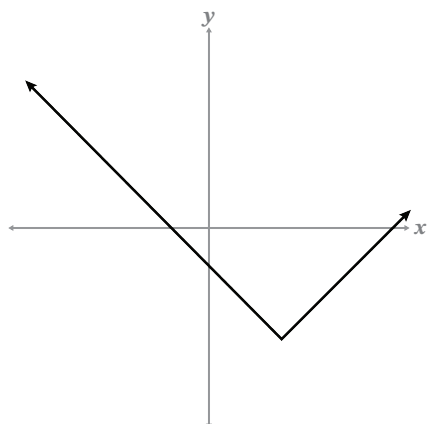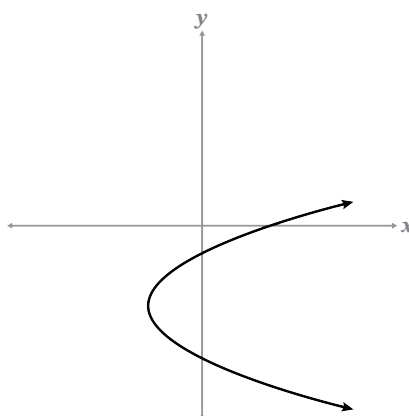
A) $y = 3x + 7$
$f(x) = 3x + 7$

B) $y = \dfrac{1}{2}x - 5$

✎ Practice

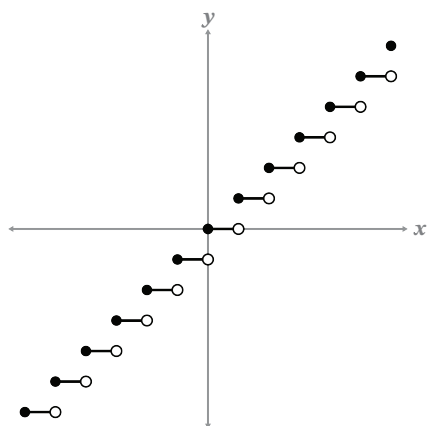**Explain why the graph does or does not represent a function.**
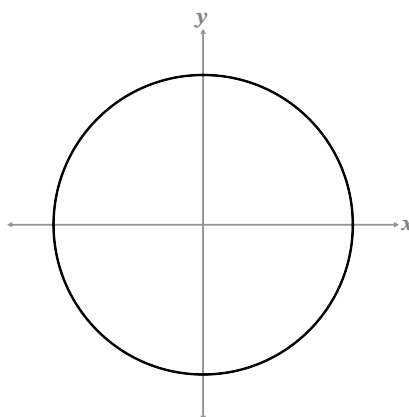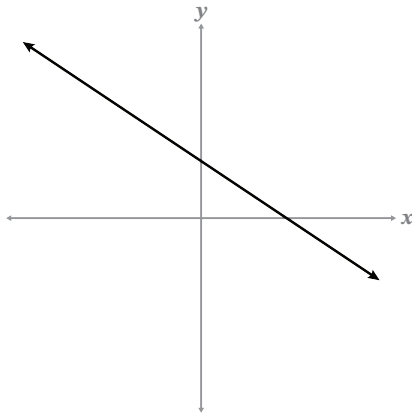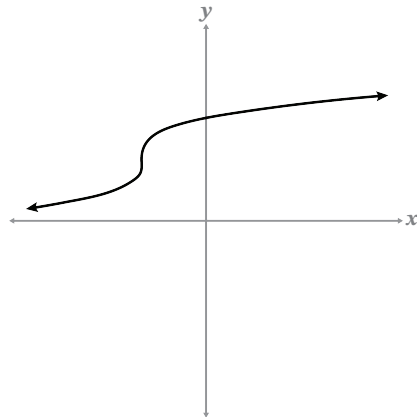
1)

2)

3)

4)

Explain why the graph does or does not represent a function.

5)

6)

Write in terms of $f(x)$.

7) $y = x^2 + 3x - 8$

8) $y = |x - 4|$

9) $y = -5(x + 8)^3$

10) $y = \dfrac{1}{5}x + 9$

Write in terms of y.

11) $f(x) = 7x(x - 9)^2$

12) $f(x) = 6x - 2$

Curious about what these equations look like when graphed?
Use technology to check it out.

To continue, return to the Online Lesson.